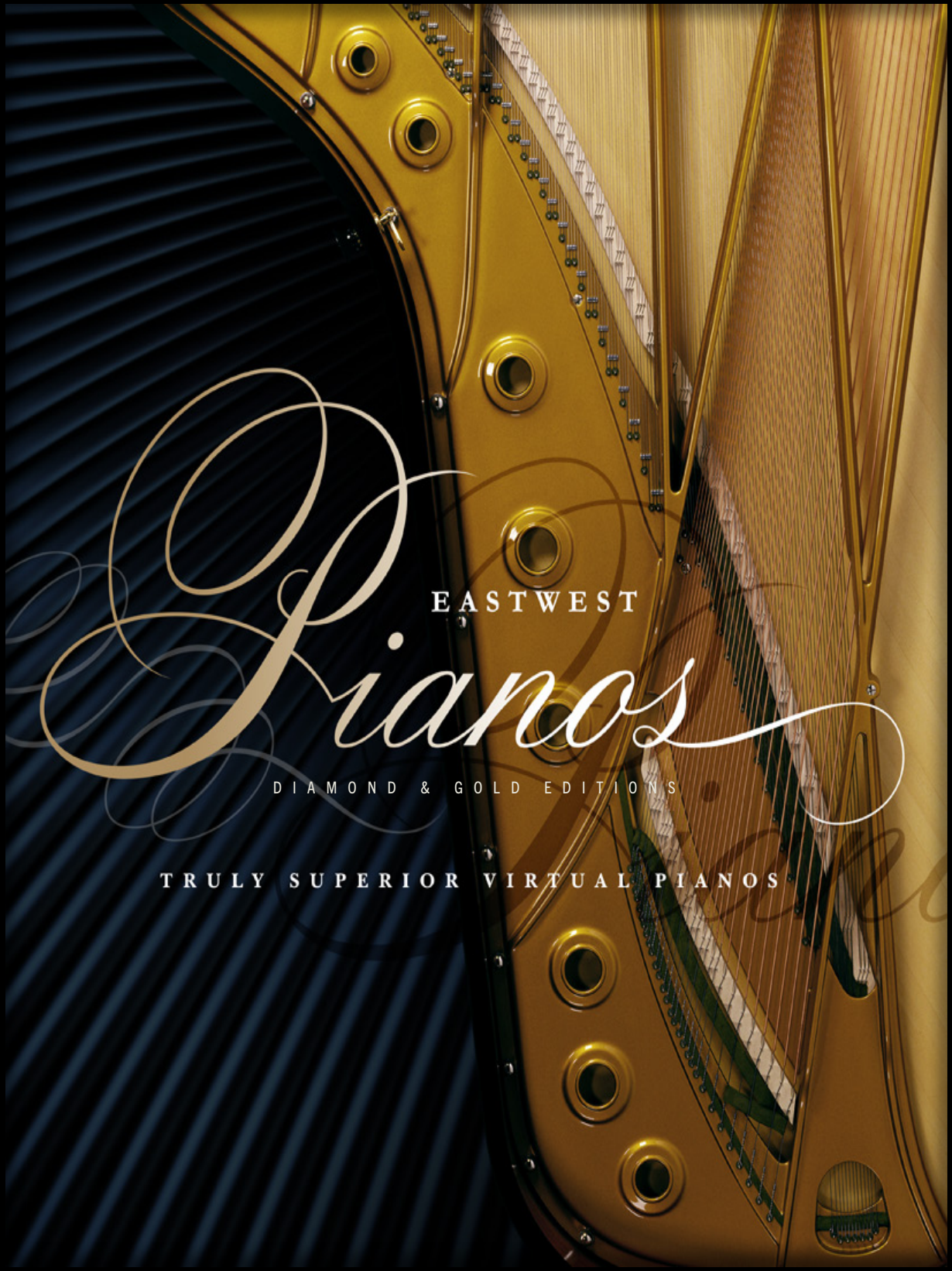


PLAY



EDITION



Pianos

EASTWEST

DIAMOND & GOLD EDITIONS

TRULY SUPERIOR VIRTUAL PIANOS

USER



MANUAL

1.0.5

IMPORTANT COMPATIBILITY NOTE

Our Revolutionary New Opus Software Engine

The new Opus software, developed over several years, replaces the Play software. All EastWest Libraries are supported in Opus—except for the original Hollywood Orchestra, Hollywood Solo Instruments, and MIDI Guitar Series—enabling them to benefit from a faster, more powerful, and more flexible engine with an enhanced user interface.

Opus introduces powerful new features, including individual instrument downloads, customizable key switches, enhanced mixer page effects, scalable Retina user interface upgrades for legacy products, and a robust scripting language, all designed to help you tailor the sound of each instrument.

It's one of the most exciting developments in the history of our company and will be the launching pad for many exciting new products in the future.

Using Opus and Play Together

Opus and Play are separate software products. Projects saved with Play will still load the Play version of those products. You can update your existing projects to use EastWest Libraries in Opus or continue using them in Play.

After purchasing or upgrading to Opus, you no longer need to use Play. However, for minor adjustments to older compositions, it may be more convenient to load instruments in Play rather than converting them to Opus. For new compositions, we recommend using Opus.

A Note About User Manuals

Each EastWest Library has its own user manual, such as this one, that details instruments and controls unique to that product, while also referencing the common controls shared between all libraries powered by the legacy Play software.

For EastWest Libraries now supported in Opus, refer to that product's 'Play Edition' user manual for product-specific features, and reference the Opus Software Manual (available at the link below) for all the powerful new features and controls available to libraries powered by the Opus software.

OPUS SOFTWARE MANUAL <https://media.soundsonline.com/manuals/EW-Opus-Software-Manual.pdf>

Information

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Engineering Assistants

Rhys Moody, Beau Fletcher

Piano Player

John Sawoski

Programming

Nick Phoenix, Justin Harris, Mike Dimattia

Sound Editing

Justin Harris, Mike Dimattia, Alec Phoenix, Nick Phoenix,
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Art Direction

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Manual

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1. Welcome

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- 5 Producer: Nick Phoenix
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Welcome

About EastWest

EastWest (www.soundsonline.com) has been dedicated to perpetual innovation and uncompromising quality, setting the industry standard as the most critically acclaimed producer of Sample CDs and Virtual (software) Instruments.

Founder and producer Doug Rogers has over 30 years experience in the audio industry and is the recipient of many recording industry awards including “Recording Engineer of the Year.” In 2005, “The Art of Digital Music” named him one of “56 Visionary Artists & Insiders” in the book of the same name. In 1988, he founded EastWest, the most critically acclaimed sound developer in the world, and recipient of over 50 industry awards, more than any other sound developer. His uncompromising approach to quality, and innovative ideas have enabled EastWest to lead the sound-ware business for 20 years.

In 1997 Rogers partnered with producer/composer Nick Phoenix and set up Quantum Leap, a wholly owned division of EastWest, to produce high-quality, no-compromise sample libraries and virtual instruments. Quantum Leap virtual instruments are mostly produced by Nick Phoenix. Some of the larger productions, such as Symphonic Orchestra, Symphonic Choirs and Quantum Leap Pianos are co-produced by Doug Rogers and Nick Phoenix. As a composer, Phoenix began scoring film trailers and television commercials in 1994. To date, he has either scored or licensed music for the ad campaigns of over 1000 major motion pictures including Tomb Raider 2, Terminator 3, Lord of the Rings Return of the King, Harry Potter 2, Star Wars Episode 2, Spiderman 3, Pirates of the Caribbean 3, Blood Diamond, Night at the Museum, and The Da Vinci Code. Quantum Leap has now firmly established itself as one of the world’s top producers of high-end sample libraries and virtual instruments.

In 2006, EastWest purchased the legendary Cello Studios (formerly United Western Recorders) on Sunset Boulevard in Hollywood, re-naming it EastWest Studios. The 21,000 sq. ft. facility, since remodelled by master designer Philippe Starck, houses five recording studios and is the world headquarters for EastWest.

Producer: Doug Rogers

Doug Rogers has over 30 years experience in the audio industry and is the recipient of many recording industry awards including “Recording Engineer of the Year.” In 2005, “The Art of Digital Music” named him one of “56 Visionary Artists & Insiders” in the book of the same name.

In 1988, he founded EastWest, the most critically acclaimed sound developer in the world, and recipient of over 50 industry awards, more than any other sound developer. His uncompromising approach to quality, and innovative ideas have enabled EastWest to lead the sound-ware business for 20 years. In the late eighties, he released the very first commercial drum sample CD, and followed it with the multiple-award-winning “Bob Clearmountain Drums” sample collection.



In the years that followed he practically reinvented the sound-ware industry. EastWest introduced loop sample libraries to the market in the early nineties, followed closely by the first midi-driven loops (Dance/Industrial). He released the first sample library to include multiple dynamics, followed by the first sample library to stream from hard disk, an innovation that led to the detailed collections available today. His recent productions of Symphonic Orchestra (awarded a Keyboard Magazine “Key Buy Award,” EQ Magazine “Exceptional Quality Award,” Computer Music Magazine “Performance Award,” and G.A.N.G. [Game Audio Network Guild] “Best Sound Library Award”); and Symphonic Choirs (awarded Electronic Musician “2006 Editor’s Choice Award,” G.A.N.G. “Best Sound Library Award,” and

Keyboard Magazine “Key Buy Award”). He persuaded audio legend Prof. Keith O. Johnson to record EWQLSO and EWQLSC, and came up with the revolutionary idea of recording all instruments and voices with 3 simultaneous stereo mic setups so users can control the tone of the performances and the acoustics of the concert hall, as well as create surround sound mixes.

His latest productions include Quantum Leap Pianos, another 3 mic setup, and the most detailed virtual piano collection ever produced; and Fab Four, inspired by the sounds of the Beatles, featuring the same kind of vintage instruments and original EMI/Abbey Road recording equipment as the Beatles used to create their music. He persuaded audio legend Ken Scott, who was involved in the recording of five Beatles albums, and engineer for “Magical Mystery Tour” and “The Beatles” (also known as the White Album) to work with him on Fab Four.

He also acquired one of Hollywood’s most famous recording studio complexes in 2006, formally United Western (now EastWest Studios), recipient of more engineering awards and RIAA certified Gold and Platinum recordings than any other studios worldwide. He persuaded top international design superstar Philippe Starck to redesign the non-technical areas of the studios. Over the last decade he has partnered with producer/composer Nick Phoenix and set up the Quantum Leap imprint, a subsidiary of EastWest, to produce high-quality, no compromise sample libraries and virtual instruments. EastWest/Quantum Leap virtual instruments are considered the best available and are in daily use by the who’s who of the industry.

His latest technical achievement was unveiled at the 2007 NAMM convention - the world’s first 64-bit audio engine named PLAY, which powers EastWest/Quantum Leap’s latest suite of virtual (software) instruments.

Producer: Nick Phoenix

Nick began scoring film trailers and television commercials in 1994. To date, he has either scored or licensed music for the ad campaigns of over 1000 major motion pictures. "Rendition," "Spider-Man 3," "Golden Compass," "The Assassination of Jesse James," "Pirates of the Caribbean 3," "Babel," "Hitman," "I Am Legend," "300," "No Country For Old Men," "Harry Potter 5," "The Brave One," "Wall-E," "Blood Diamond," "Speed Racer," and "Night at the Museum" are a few recent examples. Nick and Thomas Bergersen founded the ultimate trailer music company "Two Steps From Hell" in 2006. www.twostepsfromhell.com.

Nick has also scored numerous TV shows for NBC, CBS, Showtime, and Fox. "In Pot We Trust," a Showtime original film, is playing in the fall of 2007.



The journey as a composer has also inspired Nick to record and program his own sounds and samples. Nick founded Quantum Leap Productions in 1997 and Quantum Leap has since grown to be the world's top producer of high-end virtual instruments. A 10-year partnership with Doug Rogers and East West has yielded countless award winning software titles such as Stormdrum, Symphonic Orchestra, Symphonic Choirs, RA, Voices of Passion, Ministry of Rock, Gypsy, QL Pianos, VOTA, QL Brass, QL Guitar and Bass, Hardcore Bass, Goliath, and Colossus.

Nick's studio is located in Venice, California, and is 100% solar powered.

www.nickphoenix.com

How to Use This and the Other Manuals

All documentation for the EastWest PLAY Advanced Sample System and its libraries is provided as a collection of Adobe Acrobat files, also called PDFs. They can be viewed on the computer screen or printed to paper.

Each time you install one of the PLAY System libraries, two manuals are copied to the file system on your computer:

- The manual that describes the whole PLAY System. The largest of the manuals, it addresses how to install and use all aspects of the software that are common to all libraries.
- The library-specific manual, such as the one you are currently reading. This smaller document describes aspects that differ from one library to the next, such as the list of included instruments and articulations.

Online Documentation and Other Resources

For the most up to date information, visit the support pages at EastWest's web site. There you can find:

- information made available after these manuals were written
- FAQ pages that may already list answers to questions you have
- suggestions from EastWest and other users of the EastWest PLAY System
- news about upcoming releases

Visit our Support Center here: <https://www.soundsonline.com/support>



2. Overview

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EastWest/Quantum Leap Pianos, An Overview

EastWest/Quantum Leap Pianos was produced by Doug Rogers and Nick Phoenix, the same production team that produced the multi-award winning EastWest/Quantum Leap Symphonic Orchestra and EastWest/Quantum Leap Symphonic Choirs. Individually, these producers have also produced all of the Quantum Leap and most of the EastWest sample libraries and virtual instruments.

The Design Point For the EastWest/Quantum Leap Pianos Library

The goal was to create virtual pianos that more closely resembled real pianos than the virtual pianos that are currently available. The finished product was matched against the real pianos that were sampled extensively. The producers were able to do this because they own all of the pianos that were sampled. The 3 mic positions were recorded (close mics, player position mics and room mics), similar to EastWest/Quantum Leap Symphonic Orchestra and EastWest/Quantum Leap Symphonic Choirs. The four pianos were also sampled with unprecedented dynamic range, release trails, and the following seven articulations:

- **sustain**, with and without the sustain pedal
- **soft pedal**, with and without the sustain pedal
- **repetition**, with and without the sustain pedal
- **staccato**

The custom designed PLAY-powered interface includes a mixer to control the mics, the lid position, the articulations, concert hall impulse reverb, and many other aspects of the pianos. The signal chain used to record the pianos is a combination of classic warm tube equipment (mics), classic analogue solid state circuitry (console), and modern pristine digital equipment (converters). The close mics were AKG C12A's, the player position mics were Neumann U67's, and the room mics were Neumann M50's. A custom Neve 8078 console was used with Meitner converters. Three of the pianos (Bechstein, Bösendorfer and Steinway) were recorded in EASTWEST studio 1 (formerly United/Western Studio 1, see the history online in the main PLAY System manual). This studio is large enough to record an orchestra (see picture below), and is famous for its acoustics which are very similar to a Hollywood soundstage or orchestral stage. This type of sound works better with digital or convolution reverb than dry samples. The EastWest/Quantum Leap Pianos Virtual Instrument includes impulses of the concert hall where EastWest/Quantum Leap Symphonic Orchestra was recorded. This convolution reverb, paired with these pianos, is pure magic. It also makes the pianos very compatible with EWQLSO. The fourth piano (Yamaha C7) was recorded in EastWest's famous "rock" studio 2.



A Personal Note from Producer Nick Phoenix

I play piano in a very improvisational, romantic style. I'm one of those players that sounds decent playing on a real piano, but my playing really suffers on a digital piano. I used to attribute this to the quality of weighted controllers, but now I believe it has more to do with the lack of dynamics and the close mic'ed (i.e., plunky) synthetic sound quality of many piano samples. Producer Doug Rogers and I had discussed the possibility of sampling pianos after I purchased a Bösendorfer 290, as neither of us were satisfied with the currently available products. It wasn't until he purchased EastWest Studios, though, that everything came into focus. We knew from the outset that to capture what we had in mind would be a giant project (typical of our other productions), and the only way to do it properly was to keep the project in house using the best pianos. Between us, we had the pianos, all hand-picked from a showroom full of similar models; the right equipment; the perfect recording environment; and a fresh perspective.

All four of these piano models have been sampled before, some of them dozens of times; however, none of these efforts sound anything like what we have done in EastWest/Quantum Leap Pianos. The downside to this level of detail is that the collection is 270 gigabytes (for all four pianos), making this the largest EastWest/Quantum Leap project to date, involving 18 months of development. Fortunately, the software allows you to install each piano individually and with only the selected mic positions. This means you can fit the player position of the Steinway D, for example, into 20 gigabytes on your hard drive. You will probably, though, want all these pianos available on your system. They are a little slice of heaven, each useful for a different style of production.

What's Included

This Quantum Leap Pianos library you purchased includes all the following:

- a complete set of sample-based instruments, enumerated later in this manual
- approximately 270 Gigabytes of 24-bit, 44.1 kHz samples (for all 4 pianos and all mic positions)
- the EastWest PLAY Advanced Sample Engine
- the unique authorization code that identifies the license you bought
- manuals in Adobe Acrobat format for both the EastWest PLAY System and the Quantum Leap Pianos Virtual Instrument
- an installation program to set up the library, software, and documentation on your computer
- an Authorization Wizard for registering your license in an online database

One required item not usually included is an iLok security key. If you already have one from an earlier purchase of software, you can use it. Otherwise, you need to acquire one. They are available from many retailers that sell EastWest and Quantum Leap products, or you can buy one online at www.soundsonline.com.

Notes from the Producers

To use all of the options we have provided in each piano, you will need a powerful computer with as much as 2 GB of RAM. The PLAY software engine is fully 64-bit compatible as follows:

- on a PC, using 64-bit hosts such as Cubase, Nuendo, and Sonar, as well as when used standalone
- on a 64-bit Mac (all G5's and Intel Core 2 Duo and above) giving you access to all of the installed RAM, you have 64-bit compatibility even with 32-bit hosts such as Cubase, Digital Performer, ProTools, Logic, all other supported hosts, and standalone.

We have provided light patches for those with smaller systems, but the real beauty in these pianos will be realized only with a powerful computer.

See the compatibility chart online (www.soundsonline.com) for supported systems.

Using the 3 Microphone Positions

Combining the 3 phase-aligned mics will result in a bigger sound with definition from the close mics and with balance and fullness from the player and room mics. The room mic samples are not intended to be used by themselves. They have too little definition and too much room sound on their own. They also have some room noise that is evident when you solo them and play softly. But they can really fill out the sound nicely when combined with the other mics. The player position samples are—in our opinion—the best to use, if you can only use one mic position due to computer resources.

About Repetitions

The repetition samples in EastWest/Quantum Leap Pianos are a unique feature. On a real piano, when a note is struck more than once in rapid succession, the second strike and the

third, and so on sound very different from the initial strike. This is due to the fact that the hammer mechanism has not returned to its resting position, so it strikes the string from a starting point. Also, the string is already vibrating when hit. EastWest/Quantum Leap Pianos captures and recreates this behavior with true repetition samples extracted from repetition performances.

About Staccato

The staccato samples in EastWest/Quantum Leap Pianos are also unique. Playing staccato using the standard sustain samples with release trails will give you a believable result. Although other piano sample libraries allow you to achieve staccato performance in this manner, in this collection you have the option to further specify a staccato performance by pushing up the Mod Wheel (in Master patches only). You are now playing back actual staccato samples. They are very short and precise and will give you a completely different staccato sound than the regular sustain samples can.

About Soft Pedal

EastWest/Quantum Leap Pianos has true soft pedal samples. Depending on the piano, they will give you an alternate tone and should be used for very soft, subtle passages. The Bechstein and Bösendorfer soft pedal have a very muted tone. The Steinway and Yamaha soft pedal is much less muted, but is a nice alternate tone. Soft pedal in a real piano functions by shifting the piano action slightly so the hammers strike only one or two of the three strings for each note; that effect is captured in these samples.

About Dynamics

EastWest/Quantum Leap Pianos uses up to 18 dynamic layers on the Bösendorfer, up to 14 on the Steinway and Bechstein, and up to 12 on the Yamaha. This is for each articulation! This is one of the reasons this collection uses so many gigabytes worth of samples. The keyboard extremities, repetitions, and the soft pedal use fewer dynamic layers than the sustain or sustain with pedal samples.

About Compatibility

The three large concert grand pianos in EastWest/Quantum Leap Pianos are all laid out and programmed in the same way; therefore, replacing one piano sound with another is easy.

About the Sensitivity Control

The sensitivity control in EastWest/Quantum Leap Pianos allows you to tailor the playback of these pianos to match your keyboard controller. If the pianos don't feel just right at the default setting, experiment with this control until you are happy.

About the Swap Button

Swap allows you to reverse the left and right channels, so the high notes will come more from the left (audience position) instead of the right (players position).

Hardware Requirements

See the Play System manual for a complete list of the Hardware and Software Requirements for installing and running any PLAY System library. In addition, the available space on the hard drive required for a full installation of all 4 pianos in the Quantum Leap Pianos library is about 270 GB (Gigabytes).

It is possible to install only those pianos you need. Approximate individual sizes are:

- 74 GB for the Bechstein 280
- 88 GB for the Bösendorfer 290
- 59 GB for the Steinway D
- 47 GB for the Yamaha C7



3. User Interface

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The EastWest/Quantum Leap Pianos

User Interface

Each library presents its own interface when one of its instruments is the current one, as specified in the Instruments drop-down in the upper right corner. The image at the bottom of the page provides an overview of the entire window when in Player View.

Much of this interface is shared by all PLAY System libraries, and the common features are described in the PLAY System manual. The controls described here are:

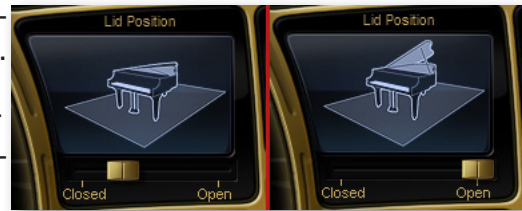
- Lid Position
- Microphone Position
- Stereo Spread



- The Graphical Representation of the Envelope
- Sensitivity
- Articulations

Lid Position Control

This control allows the user to simulate the effect of changing how far the piano's lid is opened. When all the way open, the control plays the samples without modification. Moving the slider to the left, toward the "Closed" position, dampens the samples in a way that sounds as if the lid is more and more closed. Note that this is a continuous control, so feel free to modify the sound from all the way open to all the way closed including any position in between to achieve the sound required. The image above shows the control about 80% closed (on the left) and also all the way open (on the right).



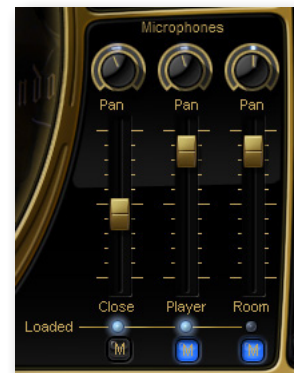
Microphone Controls

The samples for each instrument in Quantum Leap Pianos were recorded from three separate positions relative to the body of the piano:

- near the strings, called "Close"
- from the player's perspective, called "Player"
- at a distance from the piano, called "Room"

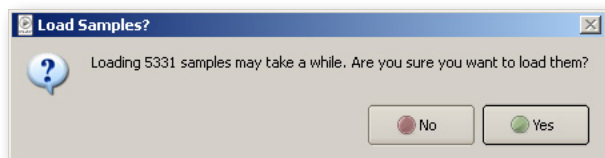
Using this control, you can see which sets of samples are loaded, as well as specify which samples are to be played (i.e., not muted), the loudness with which each set of samples plays back, and the pan positions of each mic in the output.

The three knobs at the top control the pan of the three mic positions independently. Note that these three knobs adjust relative to the master pan position, specified in a separate section of the UI, to the far right. Use the master pan to locate the instrument in the soundscape of your recording. The pan positions of the individual mics can create subtle cues about the location of the piano relative to the walls of the room as well as the orientation of the piano (i.e., where the keyboard is relative to the listener). Or use the three pan positions to create unnatural effects, if you want.



The three volume sliders let you reproduce the various miking styles used for recorded piano. For example you might want to use predominantly the Close mics to get the sound of a mic directly over the strings, but add in a little of the Room mics to open up the sound with some natural ambience.

Three small blue lights indicate which samples are loaded. In the image shown here, the Close and Player samples are



loaded and the Room samples are not. If a set of samples has not yet been loaded, click on the darkened light to initiate the loading of the samples. When you do that, you may see a message box like the one above telling you that it may take a while for the samples to load. Indicate whether you want to wait or cancel the operation by clicking on the appropriate button.

Note that clicking on a lit button will unload the samples, which does not take significant time. Also, if no samples for any of the mic positions are loaded then there's nothing to play; the keys on the onscreen keyboard change color to indicate no sound can be generated in this state.

The three buttons labeled with M are the mute buttons for each mic. When lit with a bright blue, that set of samples is silenced (until the mute is turned off). Click on the button to toggle between on and off.

Stereo Spread Controls

The Stereo Spread controls include a knob and a Swap button. The knob specifies how spread out the two stereo channels should sound. At the minimum setting, the output sounds like a monaural recording. Turning the knob to the right expands the stereo soundscape.



The Swap button, shown On in the image here, exchanges the left and right signal. This can be used to, in effect, turn the piano around; for example, the location of the Player mic will sound more as if you're listening from the other end of the piano, because the strings to the left and right are reversed. This swap is performed on the final signal after all mixing of mic positions and articulations has taken place.

The Graphical Representation of the Envelope

The Envelope Controls are described in the main PLAY System manual because they are common to all PLAY System libraries. Only some libraries include the graph, as shown here, so it is included in the manuals for those libraries only.



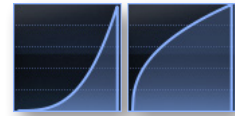
Note that the total width of the graph represents the total length of all phases of the envelope. Therefore, when you change something in one part of the graph, for example, the decay, you may see the slopes of other components, the attack and the release, change as well because those phases become a larger or smaller percent of the whole; this is as expected.

Sensitivity Control

Not all MIDI keyboards generate the same MIDI velocity parameter from the same force on the keys. A musician playing with identical touch on two keyboards may find that one

plays louder than the other. The Sensitivity Control allows the user to adjust the dynamics of the audio output in the PLAY interface instead of having to change the style of keyboard playing.

Change the curve by clicking in the graph with the mouse and dragging up or down. If you drag down, you will see the curve become more like the one at the left. Or drag up to see the curve become more like the one at the right.



When the graph is in the default position, a straight line, whatever velocity parameter the keyboard generates is passed directly to the PLAY engine unchanged. When the graph is pulled downward, like the picture on the left, mid-range velocities are reduced, resulting in the sound of the piano being played softer. At the same time, the bottom half of the range of velocities is compressed so that a fixed change in how hard the keys are hit causes a more subtle difference in the output at the lower velocities, and an exaggerated difference at the higher velocities. When the graph is pulled upward, the opposite occurs: mid-range velocities get louder, the bottom half of the range yields more exaggerated differences and the top half more subtle differences.

When Play is used as a plug-in in a sequencer, you can use the Sensitivity Control to affect the sound of a performance captured in MIDI data. For example, if a piano is standing out too much during mix-down, pull down on the sensitivity curve not only to make the playing softer, but also to create subtlety by using more of the soft velocity layers in the instrument.

Because changing velocity affects not only the loudness of the audio output but also the timbre of the notes, adjusting the sensitivity often achieves a more realistic soft—or loud—playing style that merely turning down—or up—the volume on the track.

Articulations Control

The list of articulations in Quantum Leap Pianos looks a little different than in many other virtual instruments in the PLAY system, but it functions the same way. All the articulations for in the currently displayed piano are listed. If more than four are available, a scroll bar allows you to move through the list. With the checkboxes you can load and unload samples and also make articulations active. (The PLAY engine will not play samples from an inactive articulations, but will select a different articulation instead.) The Level knobs allow you to adjust the relative volumes of the several articulations.



Note that this virtual instrument does not employ keyswitches to change between articulations. The selection of which set of samples to play is controlled by logic within the PLAY engine plus MIDI control codes for the sustain pedal, the soft pedal, and the Mod Wheel. See the relevant section at the end of this chapter for more information about how PLAY selects articulations.

The Browser View

The Browser behaves identically among all PLAY System libraries. Read the main PLAY System manual for information about how to use that view.

MIDI Control Codes in Quantum Leap Pianos

This library uses special behavior for MIDI control codes that may apply only to pianos, such as those that mimic the sustain pedal and soft pedal on a physical piano.

Sustain Pedal

MIDI Control Code 64 can be used to create the same effect as the sustain pedal (right-most pedal) on a piano. CC64 is an on/off code. To turn the pedal “on,” PLAY must receive a value of 127 (the maximum value); every other value is interpreted as “off.”

Note that because there are separate samples for the “sustain pedal” sounds, the audible effect is more than just delaying the MIDI note-off events. When the dampers of a piano are lifted, the strings of the played notes’ harmonics also vibrate, giving a fuller sound. For example, if C3 is played with the dampers up, the strings for C4, G4, C5, E5, G5, and so on all vibrate, though less than the main note (C3). This effect was captured in the “sustain pedal” samples. This approach gives the Quantum Leap Pianos a more realistic audio output.

Soft Pedal, or “Una Corda Pedal”

MIDI Control Code 67 can be used to create the same effect as the soft pedal (left-most pedal) on a piano. CC67 is an on/off code. To turn the pedal “on,” PLAY must receive a value of 127 (the maximum value); every other value is interpreted as “off.”

The soft pedal samples were recorded with a real soft pedal engaged; therefore, the sound is the traditional timbre of the piano’s hammers hitting only one string, not merely a volume reduction that is digitally generated.

Note that the soft pedal samples are not included in all instruments. Check the table in Chapter 4 to see which instruments include the soft pedal. Sending an “on” value for CC67 with an instrument that has no soft pedal samples loaded has no effect.

The Mod Wheel

The Mod Wheel can be used to play staccato samples in those instruments that include “master” in the name. By turning the Mod Wheel above the halfway point (MIDI value of 65 and higher), true staccato samples are heard.

Note that the staccato samples do not use the soft pedal, so pushing the Mod Wheel up when playing soft pedal samples will seem to release the soft pedal. To play staccato notes with the soft pedal, you must keep the lengths of the MIDI notes short.



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Instruments and Articulations

The EastWest/Quantum Leap Pianos

This chapter provides specific information about each of the pianos sampled for EastWest/Quantum Leap Pianos. Each piano is described briefly and then its instruments are listed together with their articulations.

The four sampled pianos each contain two type of instruments: Full and Lite. The Lite patches use less memory than the Full patches; they achieve their smaller size in RAM by not being chromatically sampled. That is, while the Full patches load into memory all 88 notes (or in some cases 98 notes) on the keyboard, the Lite patches only load every third note and the sounds of the remaining notes are achieved by “stretching” the closest sampled note up or down a semitone. Because the difference in timbre between two notes a half step apart is small, this approach has very little effect on the audio output. Of course, if you have the hardware to use the full patches, do so.

When using a sequencer to capture multiple instruments and make a final mix at a later time, you might consider opening a Lite patch when composing and recording; then switch to a Full patch to bounce the piano track to audio with the other tracks turned off. When you mix down all the tracks, you will hear the Full piano patch even if your hardware cannot support loading the full Patch together with all the other instruments.

Bechstein 280

The Bechstein 280 is a modern 9-foot, German concert grand piano, built in 2006. This is a very precise, technical piano that creates a fantastic classical sound, particularly for more demanding works. It can also produce a really unique, big, pop/rock piano sound.

A similar Bechstein has been used by Supertramp and many others. The Supertramp Bechstein piano on “Crime Of The Century” was recorded by legendary Engineer/Producer Ken Scott, and we persuaded Ken to engineer a pop/rock version of this piano for this collection. Producer Doug Rogers purchased the Bechstein in 2006, and when EastWest Studios re-opens to the public in 2008, this will be the EastWest Studio 1 concert grand.

Full Patches

bech clsc pop: Ken Scott engineered this classic pop/rock, close mic’ed patch. The unusual panning characteristics are part of the sound.

bech master: The Master patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on the Mod Wheel, and release trails.

bech sus rep: This patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails.

bech sus: This patch includes sustain, sustain with pedal, and release trails.

Lite Patches

bech clsc pop lite: Ken Scott engineered this classic pop/rock, close mic'ed patch (in a version that uses less memory than the "full" patch above)

bech master lite: This is the reduced memory version of the Master patch, including sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on the Mod Wheel, and release trails.

bech sus lite: A patch that includes sustain, sustain with pedal, and release trails. (A light memory version.)

bech sus rep lite: A reduced-memory version that includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails.

Bösendorfer 290

A 98-key, 9 foot and 6 inch, Grand Imperial Concert Grand piano made in Austria in 2000. This particular piano was played by a Russian concert pianist for 4 years giving it a very warm tone with a huge dynamic range. It stuck out in a room full of world class pianos. It is a very romantic piano and sounds more like a Steinway than a factory tuned Bösendorfer. Producer Nick Phoenix bought the Bösendorfer in 2006, and the sound of this piano coupled with the purchase of EastWest Studios sparked the idea to create this virtual instrument collection.

Full Patches

bosi master 88: A Master patch including sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on the Mod Wheel, and release trails. (This patch uses only the standard 88-key range.)

bosi sus 88: This patch includes sustain, sustain with pedal, and release trails (This patch uses only the standard 88-key range.)

bosi sus rep 88: This patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails (This patch uses only the standard 88-key range.)

bosi master: A Master patch including sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on Mod Wheel and release trails (This is a 98 key-version with an extended low range.)

bosi sus rep: This Patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails (This is a 98 key-version with an extended low range.)

bosi sus: This patch includes sustain, sustain with pedal, and release trails (This is a 98 key-version with an extended low range.)

Lite Patches

bosi master lite: A Master patch including sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on Mod Wheel, and release trails (A light memory version, using the standard 88 keys.)

bosi sus lite: This patch including sustain, sustain with pedal, and release trails (A light memory version, using the standard 88 keys.)

bosi sus rep lite: A patch that including sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails (A light memory version, using the standard 88 keys.)

Steinway D

An 88-key, 9-foot, American Concert Grand. We went through 12 Steinway D's before finding this gem. This is probably the most balanced universal piano in the collection. The dynamic range is huge, from a whisper to thunder.

Full Patches

stwy master: A Master patch that includes sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on the Mod Wheel, and release trails.

stwy sus rep: This patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails.

stwy sus: This patch includes sustain, sustain with pedal, and release trails.

Lite Patches

stwy master lite: A reduced memory version of the Master patch, including sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, staccato on the Mod Wheel, and release trails.

stwy sus lite: This patch includes sustain, sustain with pedal, and release trails (A light memory version.)

stwy sus rep lite: This patch includes sustain, sustain with pedal, repetitions, repetitions with pedal, and release trails, (A light memory version.)

Yamaha C7

This instrument is the pop/rock piano from EastWest Studio 2. This particular C7 has been used on more Gold and Platinum records than any other piano in existence. It is a great bright piano, but attention was also paid to the soft dynamics, which really separates this effort.

Full Patches

yama master: A Master patch that includes sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, and staccato on the Mod Wheel.

yama sus rep: This patch includes sustain, sustain with pedal, repetitions and repetitions with pedal.

yama sus: This patch includes sustain and sustain with pedal.

Lite Patches

yama master lite: A reduced memory version of the Master patch that includes sustain, sustain with pedal, repetitions, repetitions with pedal, soft pedal sustain, soft pedal sustain with pedal, and staccato on the Mod Wheel. (A light memory version.)

yama sus lite: This patch includes sustain and sustain with pedal. (A light memory version.)

yama sus rep lite: This patch includes sustain, sustain with pedal, repetitions and repetitions with pedal. (A light memory version.)

A Table of the Instruments

The following table summarizes in a compact format the information listed above.

The columns specify: Light-memory; the 7 articulation of sustain (default), sustain with pedal, repetitions, repetitions with pedal, soft pedal, soft pedal with pedal, staccato controlled by the Mod Wheel; release trails, and access to a 98-key extended keyboard.

INSTRUMENTS AND THEIR PROPERTIES										
Name	lite	sus	sus +pdl	rep	rep +pdl	soft	soft +pdl	stac	rels trails	98- key
bech clsc pop		•	•	•	•				•	
bech master		•	•	•	•	•	•	•	•	
bech sus rep		•	•	•	•				•	
bech sus		•	•						•	
bech clsc pop lite	•	•	•	•	•				•	
bech master lite	•	•	•	•	•	•	•	•	•	
bech sus rep lite	•	•	•	•	•				•	
bech sus lite	•	•	•						•	
bosi master 88		•	•	•	•	•	•	•	•	

continued

INSTRUMENTS AND THEIR PROPERTIES										
Name	lite	sus	sus +pdl	rep	rep +pdl	soft	soft +pdl	stac	rels trails	98- key
bosi sus 88		•	•						•	
bosi sus rep 88		•	•	•	•				•	
bosi master		•	•	•	•	•	•	•	•	•
bosi sus		•	•						•	•
bosi sus rep		•	•	•	•				•	•
bosi master lite	•	•	•	•	•	•	•	•	•	
bosi sus rep lite	•	•	•	•	•				•	
bosi sus lite	•	•	•						•	
stwy master		•	•	•	•	•	•	•	•	
stwy sus rep		•	•	•	•				•	
stwy sus		•	•						•	
stwy master lite	•	•	•	•	•	•	•	•	•	
stwy sus rep lite	•	•	•	•	•				•	
stwy sus lite	•	•	•						•	
yama master		•	•	•	•	•	•	•		
yama sus rep		•	•	•	•					
yama sus		•	•							
yama master lite	•	•	•	•	•	•	•	•		
yama sus lite	•	•	•							
yama sus rep lite	•	•	•	•	•					

Abbreviations Used in Instrument Names

The names of instruments are often shortened to fit in the browser list. The following table provides a way to look up any unfamiliar abbreviations until you become familiar with the shortcuts.

ABBREVIATIONS IN INSTRUMENT NAMES	
Abbreviations	Full Words
bech	Bechstein 280
continued	

ABBREVIATIONS IN INSTRUMENT NAMES	
Abbreviations	Full Words
bosi	Bösendorfer 290
lite	light-memory (smaller use of RAM)
ModW	controlled by the Mod Wheel
pdl	pedal (more specifically, the “sustain pedal”)
rpt	repetitions
soft	soft pedal, a.k.a. the “una corda pedal”
stac	staccato
stwy	Steinway D
sus	sustained (i.e., not staccato)
yama	Yamaha C7

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